Performance Data Sheet

RGA5510BAA

General Information

Model	RGA5510BAA	**Refrigerant**	R-410A
Test Condition	ASHRAE	**Performance Test Voltage**	115V ~ 60HZ
Return Gas	-6.7°C (20°F) SUPERHEAT	**Motor Type**	PSC

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	3060	2990					
	Watts	563	614					
	Amps	6.94	7.15					
	Lb/h	47.3	45.4					
-10	Btu/h	3630	3500	3350				
	Watts	592	646	702				
	Amps	7.41	7.67	7.94				
	Lb/h	52.3	50.2	48.0				
-5	Btu/h	4280	4070	3860	3640			
	Watts	616	675	735	795			
	Amps	7.79	8.10	8.42	8.74			
	Lb/h	58.2	55.9	53.6	51.2			
0	Btu/h	4990	4720	4430	4150	3850		
	Watts	637	699	763	828	894		
	Amps	8.10	8.46	8.82	9.19	9.56		
	Lb/h	64.9	62.5	60.1	57.5	54.8		
5	Btu/h	5770	5430	5080	4720	4350		
	Watts	653	720	788	856	927		
	Amps	8.34	8.74	9.14	9.56	9.98		
	Lb/h	72.6	70.0	67.4	64.7	61.9		
10	Btu/h	6620	6210	5780	5360	4920	4480	4040
	Watts	666	737	808	881	955	1030	1110
	Amps	8.51	8.95	9.40	9.86	10.3	10.8	11.3
	Lb/h	81.0	78.3	75.6	72.7	69.8	66.7	63.5
15	Btu/h	7540	7060	6560	6070	5560	5050	4540
	Watts	674	749	825	902	980	1060	1140
	Amps	8.64	9.11	9.59	10.1	10.6	11.1	11.6
	Lb/h	90.4	87.5	84.6	81.6	78.5	75.3	72.0
20	Btu/h	8540	7970	7410	6840	6270	5690	5100
	Watts	679	758	838	919	1000	1080	1170
	Amps	8.72	9.22	9.74	10.3	10.8	11.4	11.9
	Lb/h	101	97.6	94.5	91.4	88.1	84.8	81.3

25	Btu/h	9600	8960	8330	7690	7040	6390	5730
	Watts	679	763	847	932	1020	1110	1200
	Amps	8.76	9.29	9.83	10.4	11.0	11.5	12.2
	Lb/h	112	108	105	102	98.6	95.1	91.5
30	Btu/h	10700	10000	9310	8600	7880	7160	6440
	Watts	675	763	852	942	1030	1120	1220
	Amps	8.77	9.33	9.89	10.5	11.1	11.7	12.3
	Lb/h	123	120	117	113	110	106	103
35	Btu/h	11900	11200	10400	9590	8800	8000	7210
	Watts	668	760	853	947	1040	1140	1230
	Amps	8.76	9.33	9.92	10.5	11.1	11.8	12.5
	Lb/h	136	133	129	126	122	118	114
40	Btu/h	13200	12400	11500	10600	9780	8920	8040
	Watts	656	753	851	949	1050	1150	1250
	Amps	8.73	9.32	9.93	10.6	11.2	11.9	12.5
	Lb/h	150	146	142	139	135	131	127
45	Btu/h	14600	13600	12700	11800	10800	9900	8950
	Watts	641	742	844	947	1050	1150	1260
	Amps	8.70	9.30	9.92	10.6	11.2	11.9	12.6
	Lb/h	164	160	156	153	149	145	140
50	Btu/h	16000	15000	14000	13000	12000	10900	9930
	Watts	621	727	834	941	1050	1160	1270
	Amps	8.67	9.28	9.91	10.6	11.2	11.9	12.6
	Lb/h	179	175	171	167	163	159	155
55	Btu/h	17500	16400	15300	14200	13200	12100	11000
	Watts	598	709	820	932	1040	1160	1270
	Amps	8.64	9.26	9.89	10.5	11.2	11.9	12.7
	Lb/h	195	191	187	183	179	174	170

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	7.118907E+03	1.537598E+02	5.224787E+00	8.296358E+01
C2	2.646909E+02	-3.351641E+00	-5.341112E-03	1.699669E+00
C3	-2.663906E+01	6.063323E+00	3.734444E-02	-2.288433E-01
C4	1.469612E+00	-9.017674E-02	-7.503703E-04	1.756131E-02
C5	-1.479311E+00	9.380560E-02	6.222691E-04	-3.567551E-03
C6	1.199818E-02	-2.656156E-03	-3.442393E-05	2.271128E-04
C7	7.973041E-04	1.591430E-05	1.014722E-05	-7.245789E-06
C8	-1.217120E-03	1.144753E-04	-7.645962E-06	-2.586140E-06
C9	4.771146E-04	-7.138777E-05	1.521057E-06	3.579732E-06
C10	-1.412852E-04	2.952188E-05	2.049242E-07	-2.282229E-06

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature